

CLAIMS

1. An organic electrolyte capacitor comprising:
a positive electrode,
a negative electrode and
an electrolyte capable of transporting lithium ions,
wherein
the negative electrode active material is a
mesopored carbon material having a pore volume of 0.10
ml/g or more for pore diameter of 3 nm or larger.
2. The organic electrolyte capacitor according to claim
1, wherein
the mesopored carbon material is one or a mixture of
a plurality of members selected from activated carbon,
coconut shell coal, coke, charcoal, bamboo coal and resin
carbide.
3. The organic electrolyte capacitor according to claim
2, wherein
the resin carbide is a phenol resin carbide, or
the resin is a phenol resin.

4. The organic electrolyte capacitor according to any one of claims 1 to 3, wherein

the mesopored carbon material is produced by using Ni or Ni compound.

5. The organic electrolyte capacitor according to any one of claims 1 to 4, wherein

lithium ions are preliminarily supported on the negative electrode and/or positive electrode so that the positive electrode potential is 2.0 V (Li/Li⁺) or lower, when the positive electrode and the negative electrode are short-circuited.

6. The organic electrolyte capacitor according claim 5, wherein

the organic electrolyte capacitor includes a positive electrode current collector and a negative electrode current collector,

each of the current collectors has holes penetrating from surface to rearface, and

lithium ions are supported by being supplied from lithium opposed to the negative electrode and/or the positive electrode electrochemically to the negative electrode and/or the positive electrode.